

Claims after third AMENDMENT

1 1. (previously amended) A railroad grade crossing assembly for
2 blocking access across a railroad crossing, comprising:

3 gate means connectable to a stanchion and movable between a
4 generally upright position to permit access across the railroad
5 crossing and a generally horizontal position for blocking access
6 across the railroad crossing; and

7 programmable electronic controller responsive to at least one
8 of selective gate operating parameters and selective electrical
9 signals, provides at least one output signal in response thereto to
10 said gate means to programmably control at least one of a first
11 gate position motion initiation in response to a second gate
12 position, gate position duration, a communication of diagnostic
13 data, a communication of video data, an initiation of a failure
14 condition, and the reception of electronic controller programming
15 data.

1 2. (previously amended) A railroad grade crossing assembly as
2 recited in claim 1, further comprising a wireless link that is
3 coupled to said programmable electronic controller and is operable
4 to receive programming instructions for implementation by said
5 programmable electronic controller.

1 3. (previously amended) A railroad grade crossing assembly as
2 recited in claim 1, wherein said programmable electronic controller
3 comprises a programmable logic controller coupled to one or more

4 relays.

1 4.(previously amended). A railroad grade crossing assembly as
2 recited in claim 1, further comprising means for electronically
3 monitoring at least one of usage and status of the assembly.

1 5.(original) A railroad grade crossing assembly as recited in
2 claim 4, further comprising a wireless link that is coupled to said
3 means for electronically monitoring and is operable to receive data
4 from said means for electronically monitoring.

1 6.(original) A railroad grade crossing assembly as recited in
2 claim 4, further comprising a wireless link that is coupled to said
3 means for electronically monitoring and is operable to transmit
4 data generated by said means for electronically monitoring to a
5 remote monitoring station.

1 7.(previously amended) A railroad grade crossing assembly as
2 recited in claim 1, further comprising one or more cameras for
3 visually monitoring at least one of the assembly and the area
4 around the assembly.

1 8.(original) A railroad grade crossing assembly as recited in
2 claim 1, wherein said gate means includes lights that incorporate
3 a bulletproof material.

1 9. (original) A railroad grade crossing assembly as recited in
2 claim 1, wherein said gate means includes lights and a bulletproof
3 covering for protecting said lights.

1 10. (previously amended) A railroad grade crossing assembly for
2 blocking access across a railroad crossing, comprising:

3 gate means connectable to a stanchion and movable between a
4 generally upright position to permit access across the railroad
5 crossing and a generally horizontal position for blocking access
6 across the railroad crossing; and

7 telescopic arm means incorporated into said gate means for
8 automatically closing and opening the railroad crossing in response
9 to a signal, said telescopic arm means being movably incorporated
10 within said gate means and being selectively operable according to
11 said signal to extend from said gate means each time said crossing
12 assembly is to block access across said crossing and retracts
13 according to said signal each time said crossing assembly is to
14 permit access across said crossing; and

15 programmable electronic means responsive to at least one of
16 selective gate operating parameters and selective electrical
17 signals, provides at least one output signal in response thereto to
18 said gate means to programmably control at least one of a first
19 gate position motion initiation in response to a second gate
20 position, gate position duration, a communication of diagnostic
21 data, a communication of video data, an initiation of a failure
22 condition, and the reception of electronic controller programming

23 data.

1 11.(original) A railroad grade crossing assembly as recited in
2 claim 10, further comprising a wireless link that is coupled to
3 said programmable electronic means and is operable to receive
4 programming instructions for implementation by said programmable
5 electronic means.

1 12.(original) A railroad grade crossing assembly as recited in
2 claim 10, wherein said programmable electronic means comprises a
3 programmable logic controller coupled to one or more relays.

1 13.(previously amended) A railroad grade crossing assembly as
2 recited in claim 10, further comprising means for electronically
3 monitoring at least one of usage and status of the assembly.

1 14.(original) A railroad grade crossing assembly as recited in
2 claim 13, further comprising a wireless link that is coupled to
3 said means for electronically monitoring and is operable to receive
4 data from said means for electronically monitoring.

1 15.(original) A railroad grade crossing assembly as recited in
2 claim 13, further comprising a wireless link that is coupled to
3 said means for electronically monitoring and is operable to
4 transmit data generated by said means for electronically monitoring
5 to a remote monitoring station.

1 16. (previously amended) A railroad grade crossing assembly as
2 recited in claim 13, further comprising one or more cameras for
3 visually monitoring at least one of the assembly and the area
4 around assembly.

1 17. (previously amended) A railroad grade crossing assembly as
2 recited in claim 10, wherein at least one of said gate means and
3 said telescopic arm means includes lights that incorporate a
4 bulletproof material.

1 18. (previously amended) A railroad grade crossing assembly as
2 recited in claim 10, wherein at least one of said gate means and
3 said telescopic arm means includes lights and a bulletproof
4 covering for protecting said lights.

1 19. (original) A railroad grade crossing assembly as recited in
2 claim 10, further comprising an electric motor for extending and
3 retracting said telescopic arm means, and wherein said programmable
4 electronic means is operable to control said motor.

1 20. (original) A railroad grade crossing assembly as recited in
2 claim 19, wherein said motor is coupled to said telescopic arm
3 means through a clutch that is released upon failure of said
4 motor's power supply.